EPA Region 5 Records Ctr.



DATE:

September 22, 1981; November 19, 1981

TO:

Field Operations Section & Records Unit/DWPC

FROM:

Timothy R. Kluge, Region V Springfield, FOS/DWPC

TO

SUBJECT:

Sherwin-Williams Chemical Company (Hillsboro, Montgomery County)

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Wastewater Discharges Reconnaissance Inspection

Interviewed: Peter Meehan, General Manager

On the above dates, I conducted surveys of the Sherwin-Williams plant site in Hillsboro to determine water pollution potential. The site was purchased by Sherwin-Williams in November 1980 from the Eagle-Picher Company, reportedly with the understanding that each company would be responsible for environmental problems arising out of its period of ownership. These inspections followed several surveys by DLPC personnel; their reports are attached.

On September 22, Mr. Meehan was questioned concerning wastewater discharges and water drainage from the site. He indicated that there are no wastewater discharges from the plant. Cooling water from equipment water jackets is recirculated from a sump near the northeast corner of the furnaces. No problems were observed with this system.

A brief survey was made of the south portion of the property with Mr. Meehan, who indicated that drainage from the site was to a small pond near the south edge of the property. This pond was observed to be stagnant with no apparent discharge and a high algae content. No samples were collected on this date.

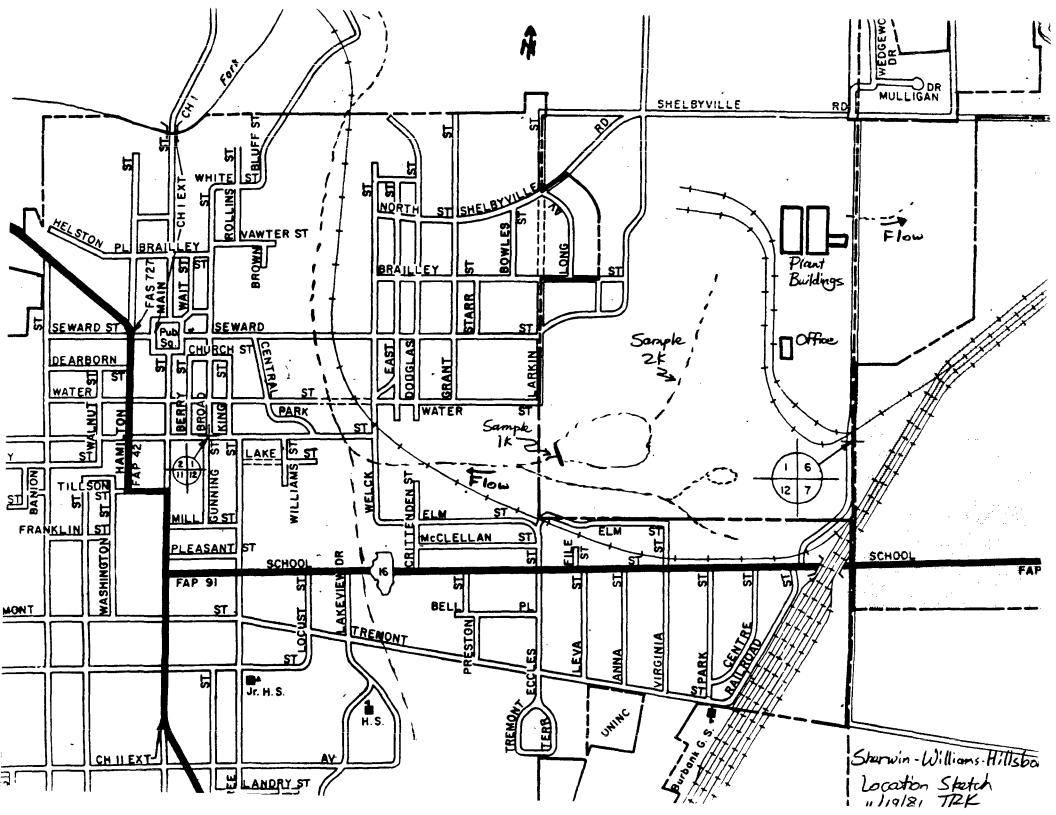
The area to the south and west of the plant contains large amounts of zinc clinker (ore spoil from the zinc oxide manufacturing process). A partial analysis of this material by a consultant for Sherwin-Williams indicated it to be very high in lead and cadmium. Zinc was not analyzed; nickel, barium, and arsenic were also higher than adjacent soil. A small area had been used for dumping of old appliances and building material. The entire area appeared to have a significant potential for contaminated runoff.

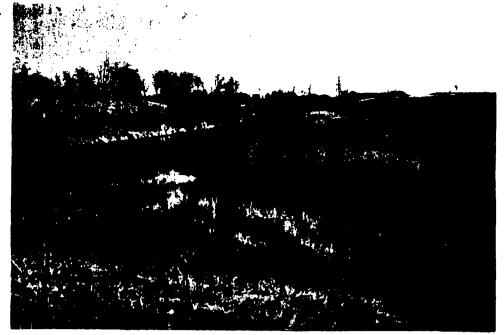
On November 19, the site was revisited in an attempt to locate the pond sampled by DLPC; this large pond is not visible from the area previously observed nor was it's existence discussed during the previous visit. A sketch and photographs of the area are attached. Samples were collected upstream and downstream of the pond; flows were estimated at 1-2 gpm at both locations. The pond and discharge were orange in color; the sample results (attached) indicate violations of water quality standards for cadmium, iron, lead, zinc, and copper both upstream and downstream of the pond (cadmium upstream only, lead downstream only).

A more complete sampling survey is to be scheduled in the near future; a letter will be sent to the company following that visit.

JJF/TRK/mh 6-7-82

cc: Region V Springfield





Date of Photograph: 1/19/21 Time of Photograph:

Location of Area Photographed: Shurwin-Williams Hilkhoro
Into near Wend of site, view approx E from dam

Photograph Taken by: T. Kluge Photo



Date of Photograph:	14/19/81	Time of	Photograph:	
Location of Area Pho Closer View Same	tographed	: Storwing	- Williams, Hills	boro
Photograph Taken hv:				



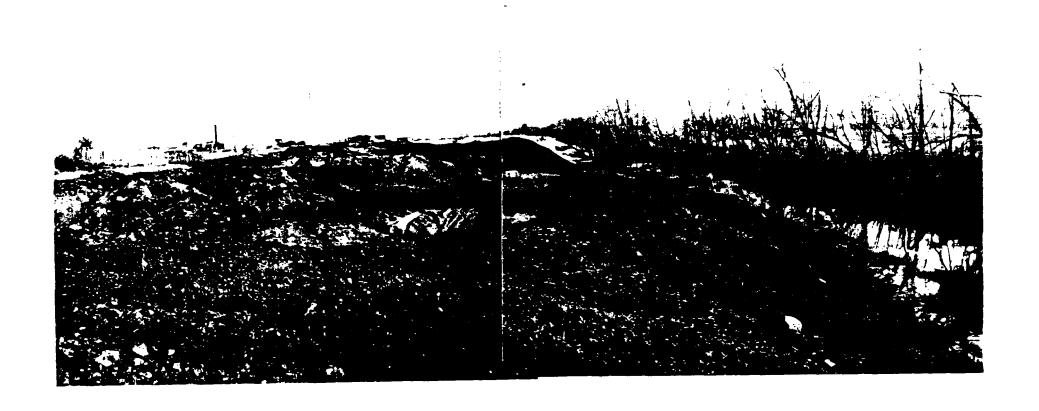
Date of Photograph: 11/9/81 Time of Photograph:

Location of Area Photographed: Junyin billians Hilkon Lake nor Wend of Site, view to and dam of iv and

Photograph Taken by: T. Kluge Photo



Date of Photograph: 1419/81 Time of	f Photograph:
Location of Area Photographed: Storing	n. Williams Hillshop
Photograph Taken hv: T. Klugz	Photo •



Date of Photograph: ///9/8/ Time of I	Photograph:
Location of Area Photographed: Staruin	Williams Hilklers
Abor Sodge of property - View toward plan	end to east
Photograph Taken by: T.Kluco	Photo #



Date of Photograph: IIII Time of Photograph:

Location of Area Photographed: Sharwin-Williams, Hilsberg

View to E from near center of site.

Photograph Taken by: T. Klugo Photo



Date of Photograph: <u>II/19/81</u> Time of Photograph:

Location of Area Photographed: <u>Sherwin-Williams</u>, <u>Hilkhoro</u>

Discharge from plant to disch flowing E from eite

Photograph Taken In: <u>T. Eligo</u>

Photo

SPECIAL ANALYSIS FORM

	STEETITE THE	TOTAL	
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	edge of preparty		
hysical Observations.	Remarks: Orange color	st trulid	
	Memarko. Carace aprile	3, 100 200	
low	ield Dissolved Oxygen	Field pH	Field Temp.
0.002 (Arsenic)		form/100m1	BOD
	Feca	l Coliform 100 ml	COD
Boron	Feca	1 Strep 100 ml	TS/EC
0.618 Cadmium	Alga	e (Total) /m1	Susp.Solids
0.03 Copper	Ammo	nia (N)	Vol.Susp.Solids
	-	nic Nitrogen (N)	pH (units)
Vo Bottle Chromium (hex)Nitr	ate + Nitrite(N)	Turbidity (JTU)
3.00 Iron (Tota	_	phorus (P)	Hardness
Iron (Diss	olved)Chlo	ride	Alkalinity
0,14 (Lead)	Fluo	ride	Total Acidity
6,83 Manganese	Sulf	ate .	Free Acidity
Mercury (pp	ob)Cyan	ide	011
0.07 Nickel	MBAS		Other (Specify)
40.001 Selenium	Phen	ol (ppb)	
40.00 311ver	Transported by: 1/	Lab Numb	BO26124 Rec'd by
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2k ILLINOIS ENVIRONMEN PROTECTION ACENCY-DIVISION OF VIEW POLLUTION CONTROL

SPECIAL ANALYSIS FORM

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hysical Observations	s, Remarks: Clear			
low	Field Dissolved Oxygen	Fi	leld pH	Field Temp.
0.003 Arsenic		Coliform/100ml		BOD
O.L Barium)	Fecal Coliform		COD
Boron		100 ml Fecal Strep		TS/EC
D.300 Cadmium)	100 ml / Algae (Total)	′m1	Susp.Solids
0.03 Copper		Ammonia (N)		Vol.Susp.Solids
LO.01 Chromium	n tot.	Organic Nitrog	en (N)	pH (units)
10 Bottle Chromium		Nitrate + Nitr	ite(N)	Turbidity (JTU)
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0.09 (Nickel)		MBAS	~	Other (Specify)
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